

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Appln. No.: 10/809,846
Attorney Docket No.: Q80537

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1-8 (canceled).

9. (currently amended): A switch connector which is adaptable to a computer system including, a memory bus, at least one memory slot and an electric load, wherein:
~~said switch connector couples one of a plurality of signal lines of said memory bus to one of a plurality of module pins a pin of a memory module, and insulates said signal line from said electric load, in a case where when~~ said memory module is inserted in said at least one memory slot; and

~~said switch connector couples the one of said plurality of signal line lines of said memory bus to said electric load, in a case where when~~ said memory module is not inserted in said at least one memory slot.

10. (currently amended): ~~The switch connector according to claim 9, wherein~~
A switch connector which is adaptable to a computer system including, a memory bus, at least one memory slot and an electric load, wherein:
said switch connector couples a signal line of said memory bus to a pin of a memory module, when said memory module is inserted in said at least one memory slot;

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said switch connector couples said signal line of said memory bus to said electric load,
when said memory module is not inserted in said at least one memory slot; and
said switch connector is disposed inside said at least one memory slot.

11. (currently amended): A switch connector which is adaptive to a computer system including, a memory bus, at least one memory slot and an electrical load, comprising:

a first connector pin which is coupled to one of a plurality of signal lines of said memory

bus; and

a second connector pin which is coupled to said electric load, and wherein

said switch connector provides electric contact between said first connector pin and said second connector pin, in a case where a memory module is not inserted in said at least one memory slot, and

said switch connector insulates said first connector pin from said second connector pin, in a case where said memory module is ~~not~~ inserted in said at least one memory slot.

12. (currently amended): ~~The switch connector according to claim 11, wherein:~~

A switch connector which is adaptive to a computer system including, a memory bus, at least one memory slot and an electrical load, comprising:

a first connector pin which is coupled to one of a plurality of signal lines of said memory
bus; and

a second connector pin which is coupled to said electric load, wherein

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said switch connector provides electric contact between said first connector pin and said second connector pin, in a case where a memory module is not inserted in said at least one memory slot,

said switch connector insulates said first connector pin from said second connector pin, in a case where said memory module is inserted in said at least one memory slot,

one end of said first connector pin is fixed on a casing of said at least one memory slot;
and

other end of said first connector pin provides flexible electric contact with said second connector pin or with one of a plurality of module pins of said memory module.

13. (original): A method of controlling operations of a computer system including a plurality of memory slots, comprising:

arranging a plurality of memory connectors on each of said plurality of memory slots;
coupling a plurality of bus lines respectively to said plurality of memory connectors;
coupling at least one impedance matching circuit to at least one of said plurality of memory connectors;

coupling said plurality of bus lines to a memory module, in at least one of said plurality of memory slots in which the memory module is inserted; and

coupling said at least one impedance matching circuit to at least one of said plurality of bus lines, in at least one of said plurality of memory slots in which the memory module is not inserted.

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14. (original): The method according to claim 13, further comprising:
- coupling said plurality of bus lines respectively to first-type connector pins included in each of said plurality of memory connectors;
- coupling said at least one impedance matching circuit to at least one of second-type connector pins included in at least one of said plurality of memory connectors;
- providing electric contact between said first-type connector pins and module pins of the memory module, in the at least one of said plurality of memory slots in which the memory module is inserted; and
- providing electric contact between said first-type connector pins and said second-type connector pins, in at least one of said plurality of memory slots in which the memory module is not inserted.

15. (new): The switch connector according to claim 9, wherein said electric load is provided by at least one load circuit.

16. (new): The switch connector according to claim 15, wherein said at least one load circuit includes at least one impedance matching circuit.

17. (new): The switch connector according to claim 15, wherein the impedance of said at least one load circuit is approximately equal to the impedance of a memory module.

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18. (new): The switch connector according to claim 11, wherein said electric load is provided by at least one load circuit.

19. (new): The switch connector according to claim 18, wherein said at least one load circuit includes at least one impedance matching circuit.

20. (new): The switch connector according to claim 18, wherein the impedance of said at least one load circuit is approximately equal to the impedance of said memory module.

21. (new): A switch connector which is adaptable to a computer system including, a memory bus, at least one memory slot and an electric load, wherein:

said switch connector couples a signal line of said memory bus to a pin of a memory module, when said memory module is inserted in said at least one memory slot;

said switch connector couples the signal line of said memory bus to said electric load, when said memory module is not inserted in said at least one memory slot;

and said electric load is provided by at least one load circuit.

22. (new): The switch connector according to claim 21, wherein said at least one load circuit includes at least one impedance matching circuit.

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23. (new): The switch connector according to claim 21, wherein the impedance of said at least one load circuit is approximately equal to the impedance of said memory module.

24. (new): A contact for a memory module connector, comprising:
a resilient conductive first contact part;
a conductive second contact part;
a casing in which one end of said first contact part and one end of said second contact part are fixed; wherein

a memory module separates said first contact part from said second contact part when said memory module is inserted into said memory module connector; and
said first contact part contacts with said second contact part when said memory module is not inserted into said memory module connector.

25. (new): The contact of claim 24, wherein:
said first contact part is coupled to a signal line and said second contact part is coupled to an electric load.

26. (new): The contact of claim 24, wherein:
said memory module is a DIMM.

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27. (new): The contact of claim 24, wherein:
said memory module is a SIMM.